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RD/EI

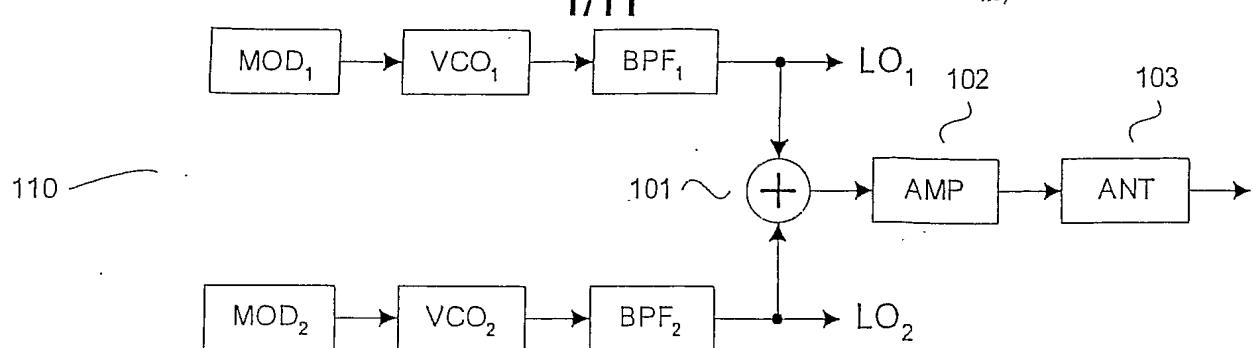


Fig. 1a Transmitter

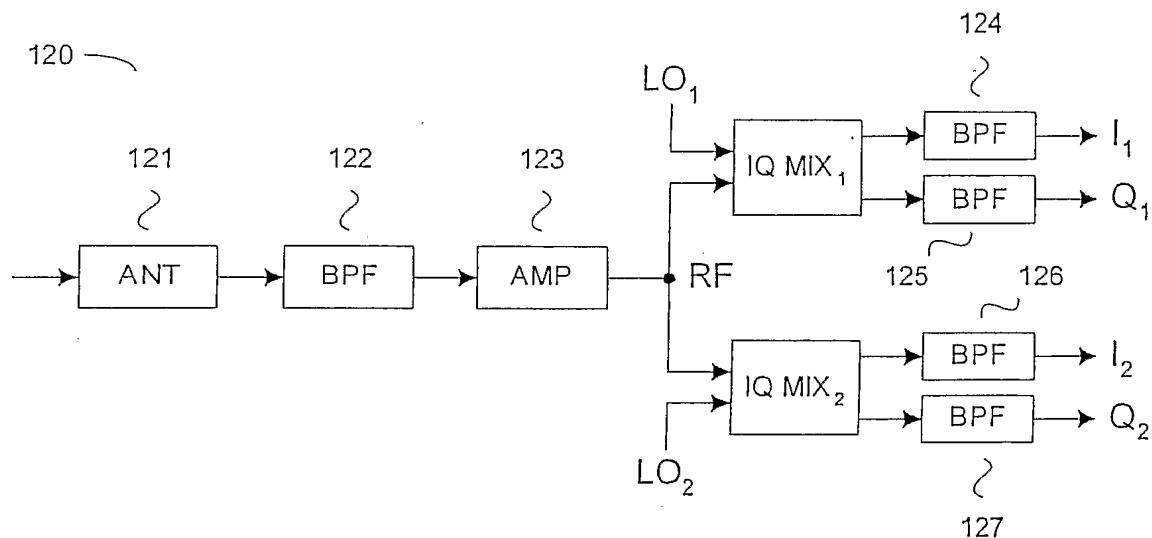


Fig. 1b Receiver (one channel)

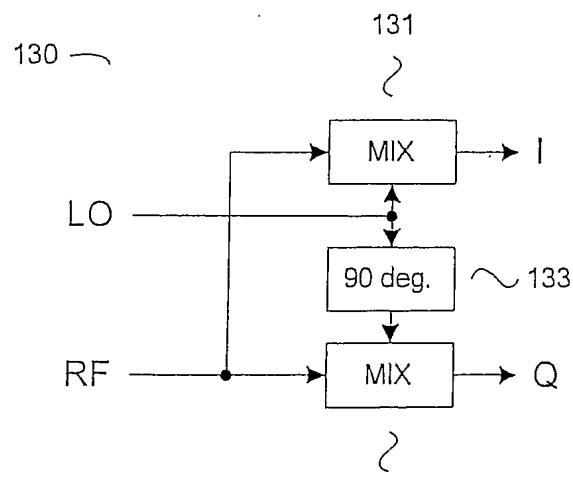


Fig. 1c IQ Mixer

Relative Location of Receive  
Antenna Channels  
(as seen from behind the antenna)

1	2
3	4

Figure 2

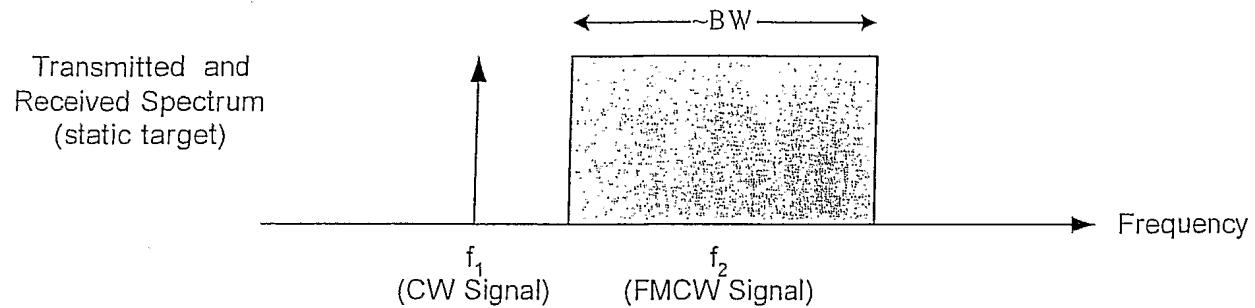


Figure 3a

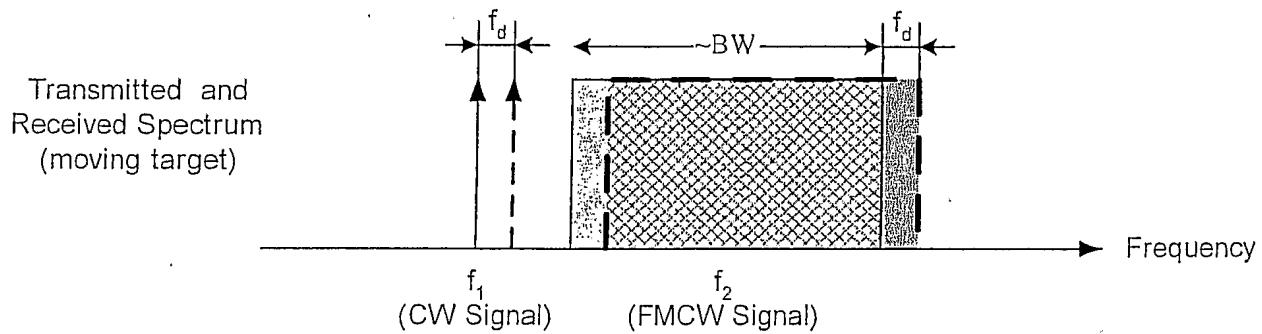


Figure 3b

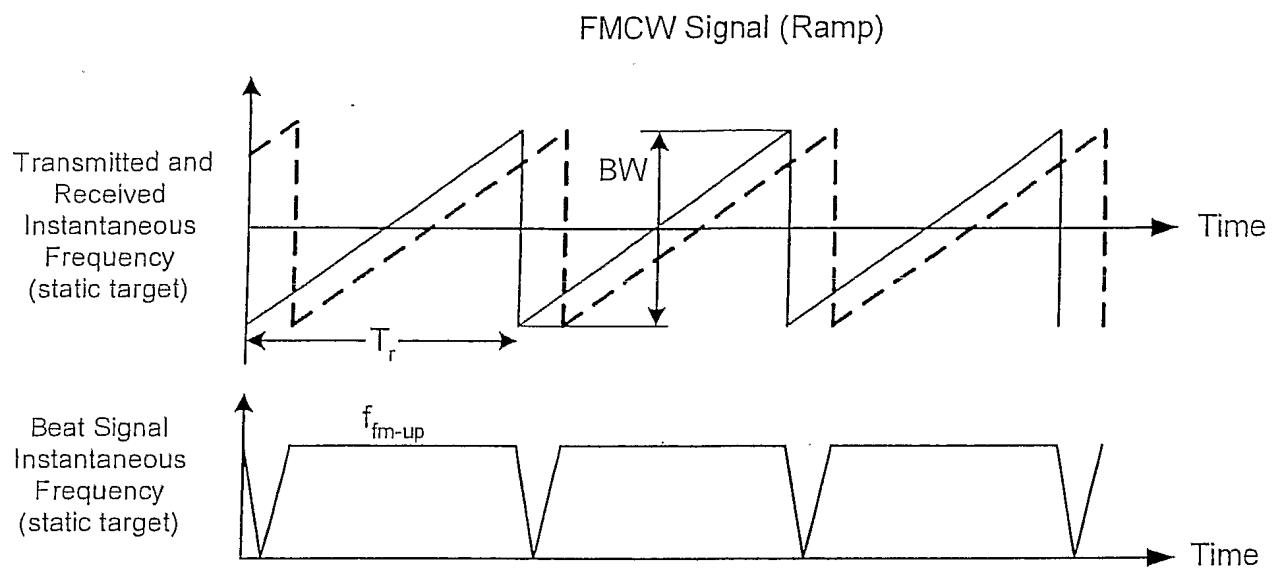


Figure 4a

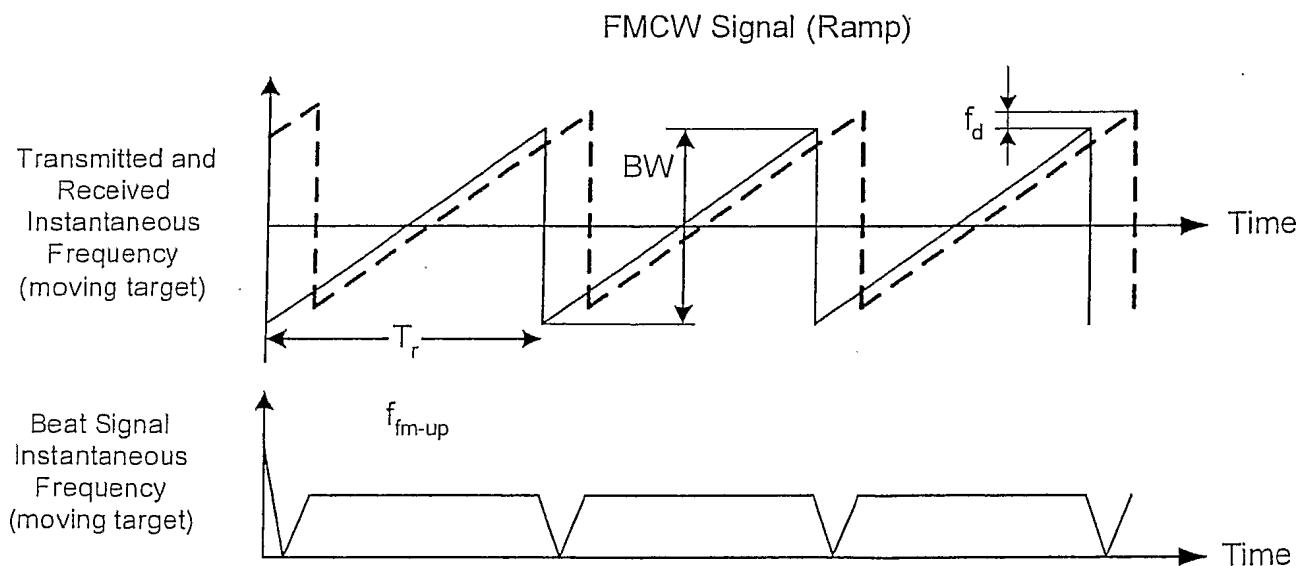


Figure 4b

FMCW Signal (Triangular)

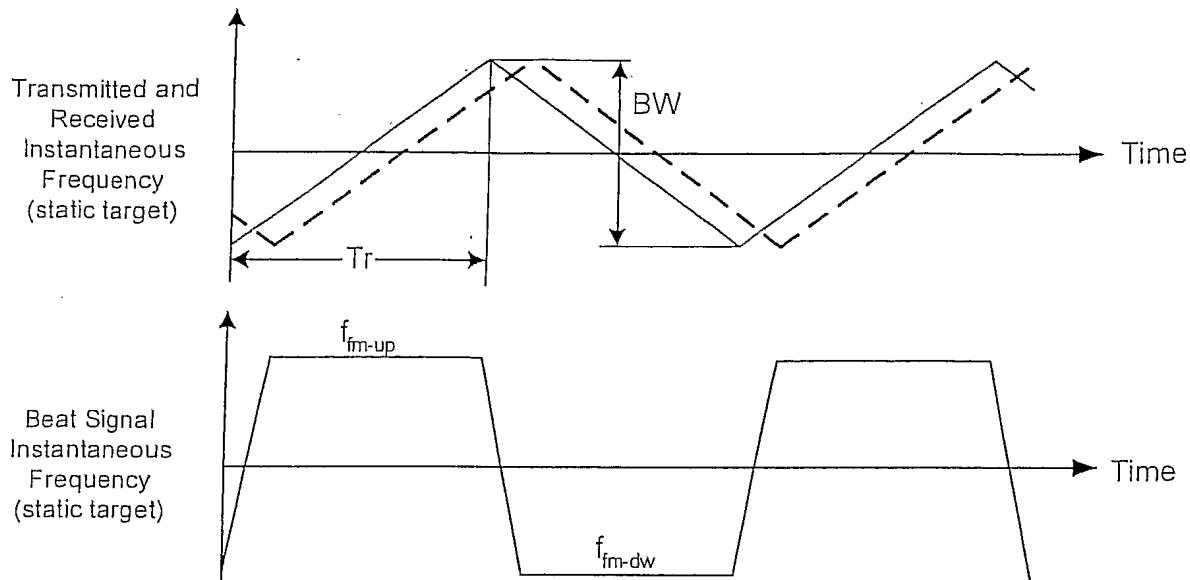


Figure 5a

FMCW Signal (Triangular)

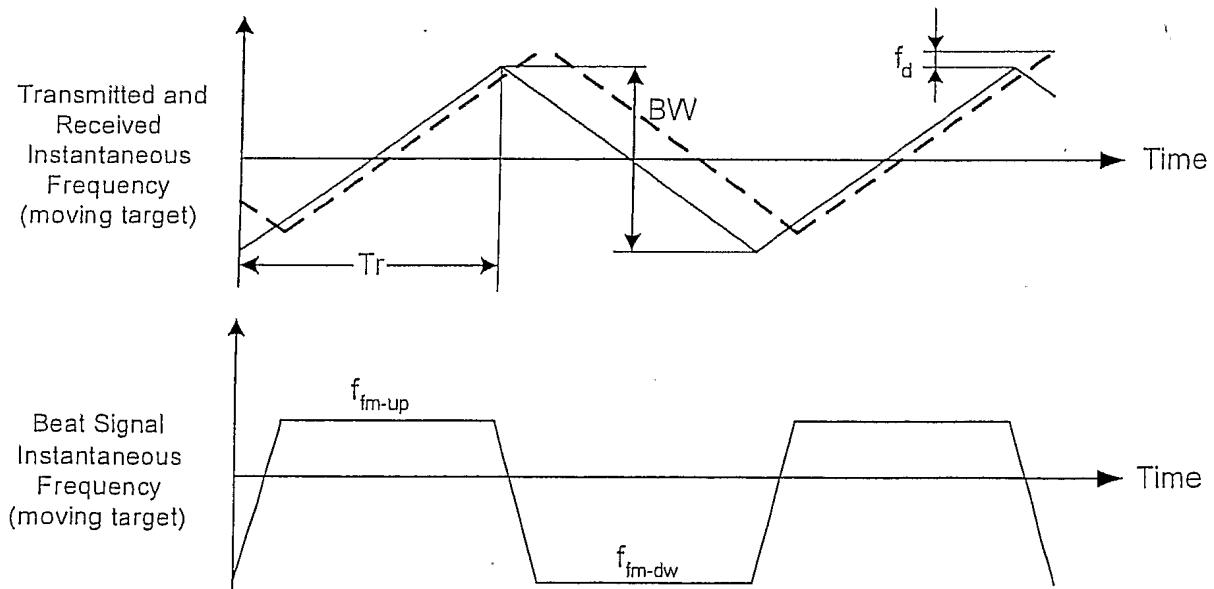


Figure 5b

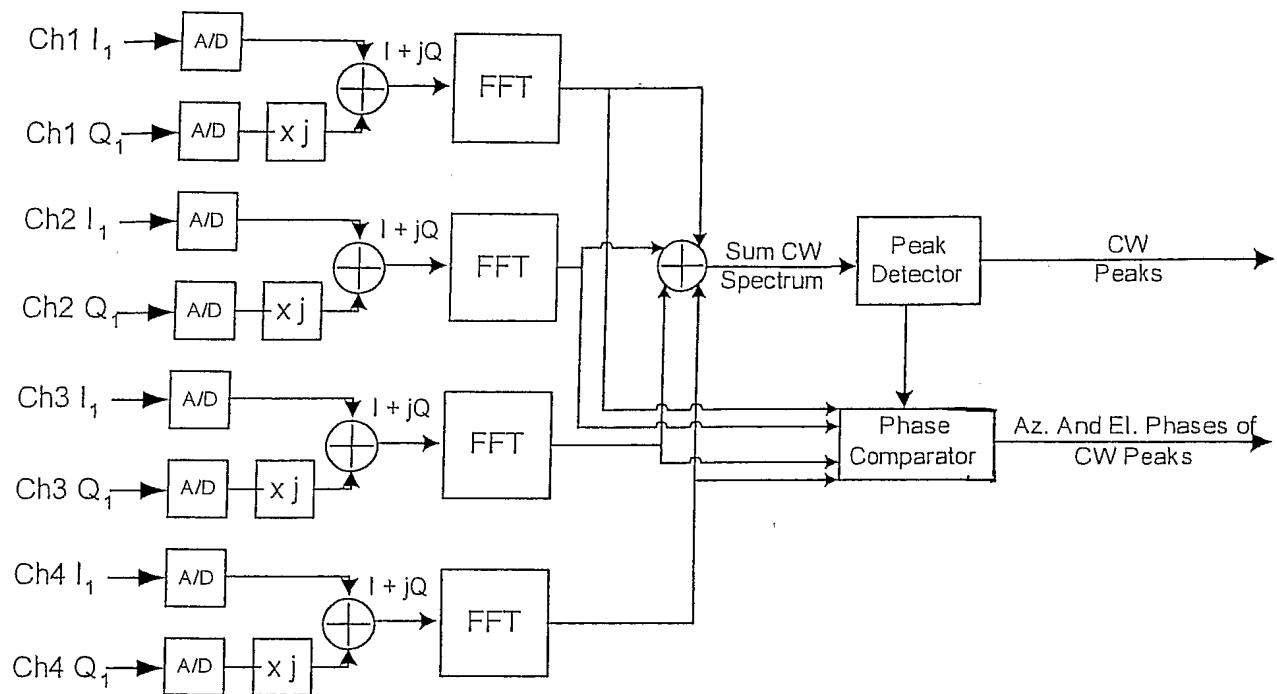


Figure 6a

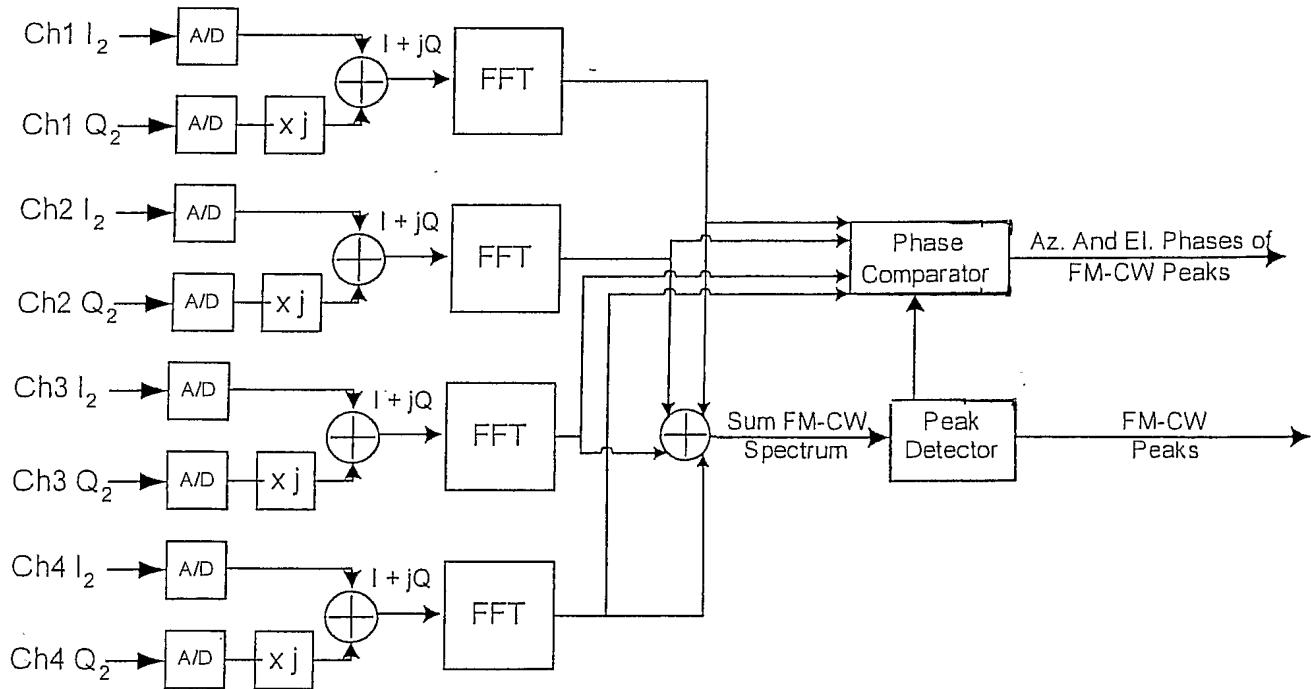


Figure 6b

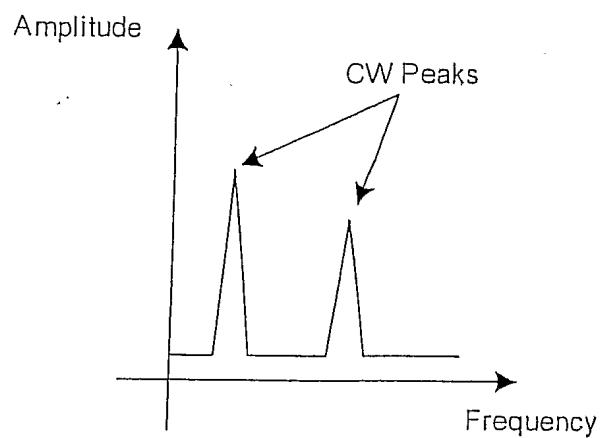


Figure 7a

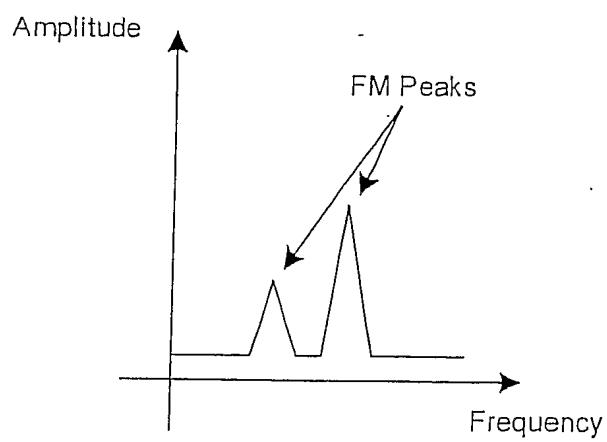


Figure 7b

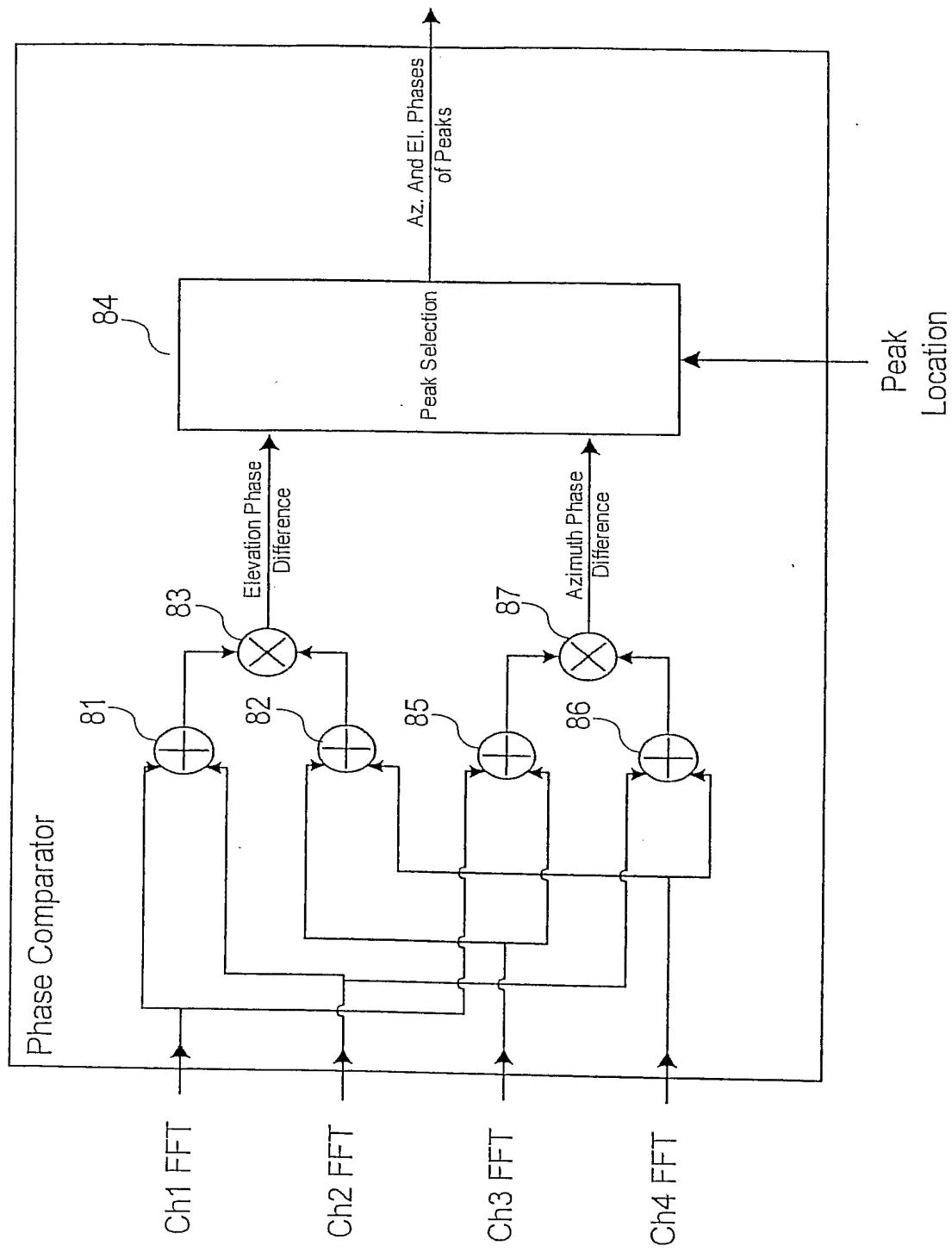


Figure 8

## Frequencies of Peaks from FM Up-Ramp

$f_{\text{fm-up } i}$ : Frequency of upramp peak  $i$

$f_{fm-dw_j}$ : Frequency of downramp peak j

$v_{ij}$ : Velocity measurement derived from the selected pair of up- and downramp peaks

Figure 9

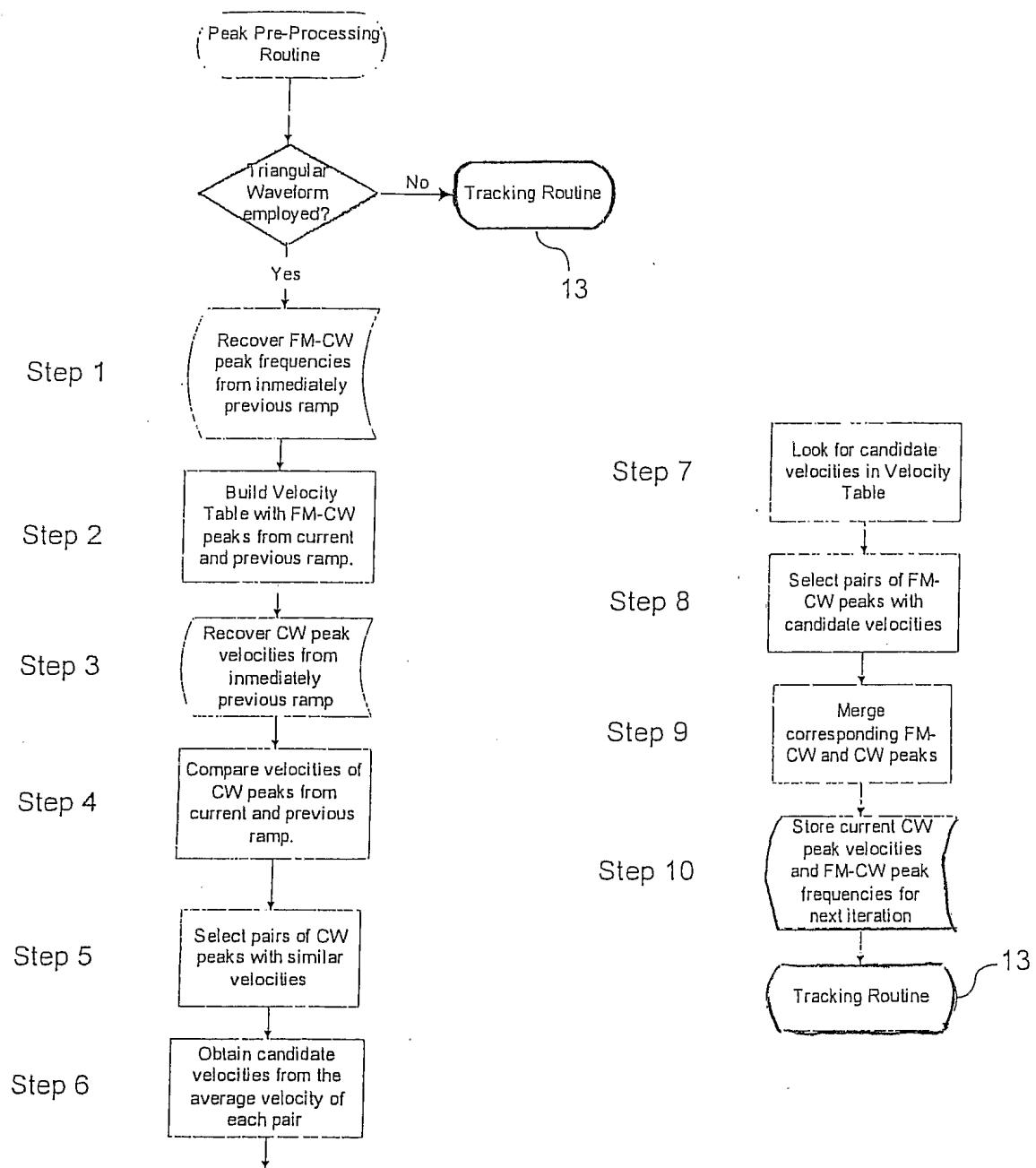


Figure 10

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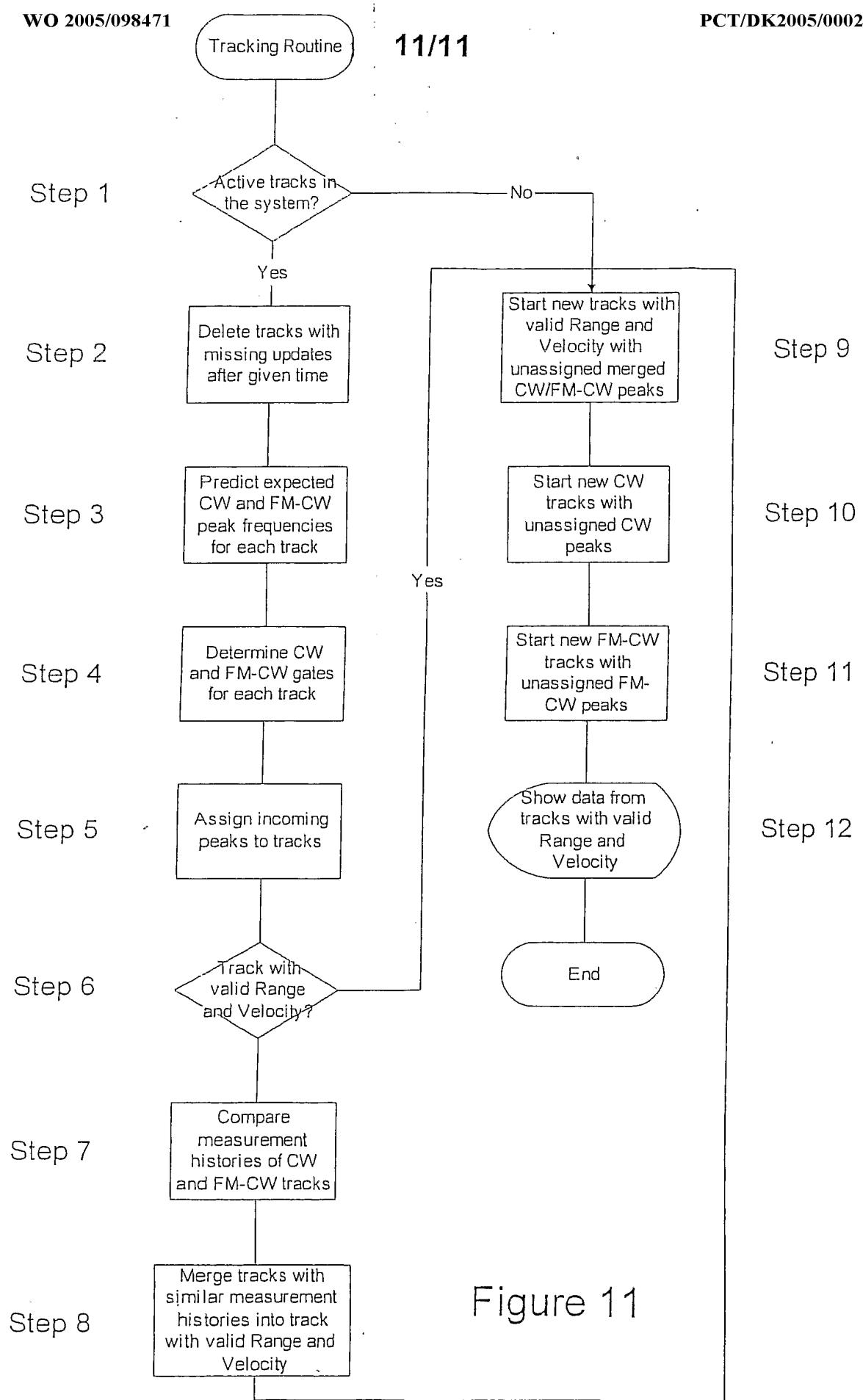


Figure 11